

# JS12-12



## JS Series lead-acid battery

### Applications

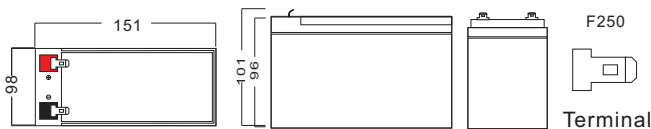
- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting, Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

### General Features

- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology



Dimension: 151(L)×98(W)×96(H)×101(TH) Unit: mm



### Specification

|                        |  |
|------------------------|--|
| Nominal Voltage        | 12V  |
| Nominal Capacity       | 12.0Ah   |
| Design life            | 5 years  |
| Terminal               | F250   |
| Approx. Weight         | Approx 3.50kg (7.72lbs)                              |
| Container Material     | ABS  |
| Rated Capacity         | 12.0Ah → 20Hour Rate (0.60A to 10.5V)                |
|                        | 9.33Ah → 3Hour Rate (3.11A to 10.5V)                 |
|                        | 7.92Ah → 1Hour Rate (7.92A to 9.60V)                 |
| Internal resistance    | Full charged at 25°C: 18.0 mΩ                        |
| Max. Discharge Current | 180A(5S)   |
| Operating Temperature  | Discharge: -20 ~50°C (-4 ~ 122°F)                    |
|                        | Charge: -20 ~50°C (-4 ~ 122°F)                       |
|                        | Storage: -20 ~50°C (-4 ~ 122°F)                      |
| Charge current:        | Max. 3.00A ; Recom. 1.20A                            |
| Charge Method (25 °C)  | Float Charge: 13.5-13.8V, recom. 13.8V (-18mV/°C)    |
|                        | Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/°C) |
|                        | Cycle charge: 14.4-15.0V, recom. 14.7V (-30mV/°C)    |
| Self discharge         | 3% of capacity declined per month at 25°C            |

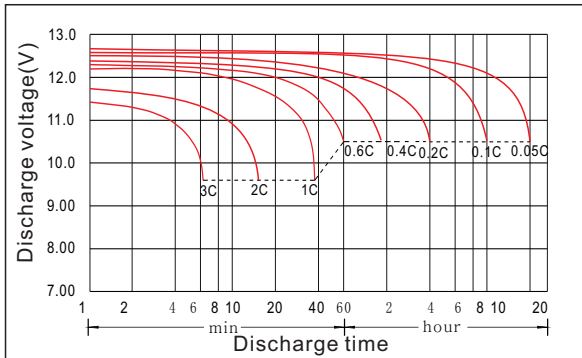
### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| FV/Time | 5min | 10min | 15min | 30min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h   |
|---------|------|-------|-------|-------|------|------|------|------|------|------|------|-------|
| 1.60V   | 47.5 | 31.1  | 23.2  | 15.2  | 7.92 | 4.54 | 3.31 | 2.65 | 2.26 | 1.49 | 1.19 | 0.636 |
| 1.65V   | 47.2 | 29.8  | 21.2  | 14.4  | 7.44 | 4.36 | 3.22 | 2.57 | 2.21 | 1.46 | 1.18 | 0.624 |
| 1.70V   | 38.6 | 28.0  | 19.8  | 14.0  | 7.20 | 4.27 | 3.16 | 2.44 | 2.18 | 1.44 | 1.15 | 0.612 |
| 1.75V   | 35.9 | 26.6  | 18.5  | 13.6  | 6.95 | 4.16 | 3.11 | 2.40 | 2.09 | 1.40 | 1.13 | 0.600 |
| 1.80V   | 33.0 | 25.1  | 17.2  | 13.2  | 6.71 | 4.06 | 2.94 | 2.35 | 2.00 | 1.37 | 1.10 | 0.576 |

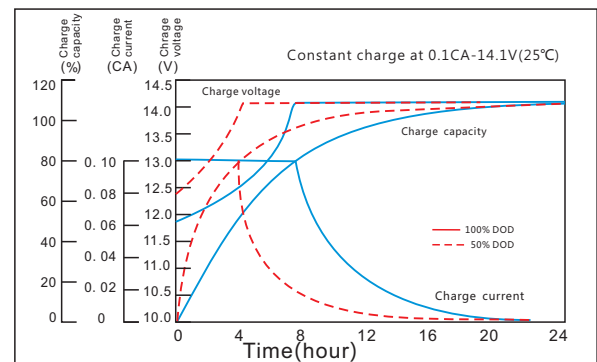
### Constant Power Discharge Characteristics Unit: W/cell(25°C, 77°F)

| FV/Time | 5min | 10min | 15min | 30min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V   | 89.2 | 56.0  | 42.4  | 25.6  | 14.5 | 8.50 | 6.26 | 5.02 | 4.26 | 2.81 | 2.30 | 1.26 |
| 1.65V   | 82.2 | 53.0  | 39.8  | 25.5  | 13.7 | 8.18 | 6.08 | 4.86 | 4.18 | 2.77 | 2.26 | 1.23 |
| 1.70V   | 75.2 | 51.4  | 38.0  | 25.4  | 13.2 | 8.02 | 5.98 | 4.62 | 4.06 | 2.74 | 2.24 | 1.22 |
| 1.75V   | 68.2 | 49.8  | 36.6  | 25.1  | 12.9 | 7.84 | 5.90 | 4.56 | 3.98 | 2.63 | 2.19 | 1.19 |
| 1.80V   | 61.2 | 48.2  | 35.0  | 24.9  | 12.7 | 7.78 | 5.74 | 4.52 | 3.88 | 2.54 | 2.14 | 1.18 |

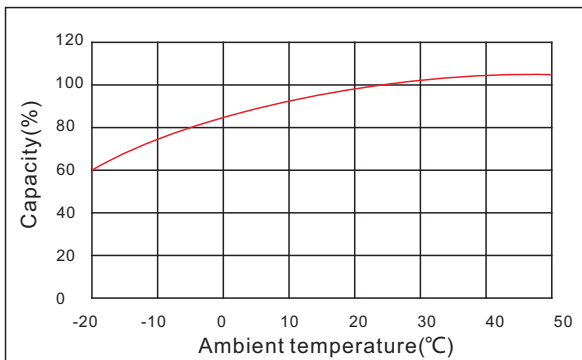
## Discharge characteristic



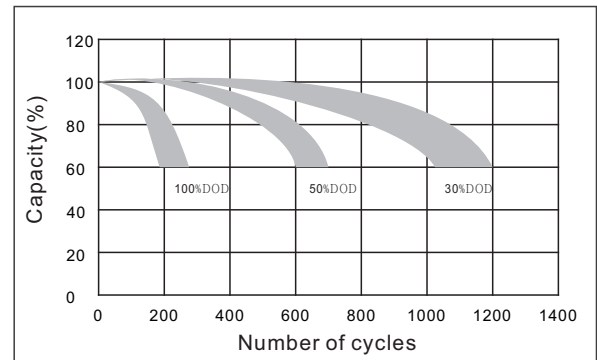
## Charging characteristic



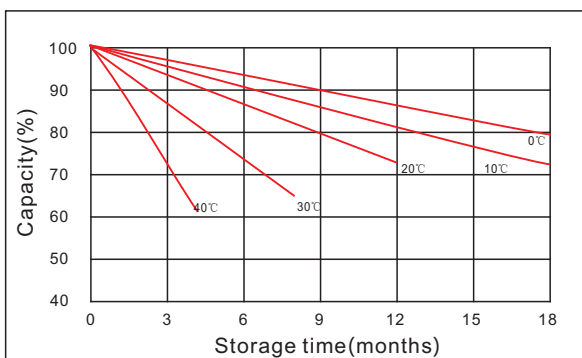
## The effect of temperature on capacity



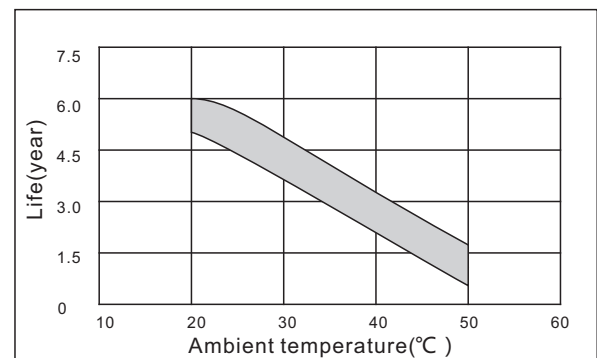
## The effect of discharge depth on cycle life



## Curves of self-discharge



## The effect of temperature on float life



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